

UM-SJTU PHYSICS LABORATORY
DATA SHEET (EXERCISE 4)

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Name: _____

Student ID: _____

Group: 1

Date: 11.19

NOTICE. Please remember to show the data sheet to your instructor before leaving the laboratory. The data sheet will not be accepted if the data are recorded with pencil or modified by correction fluid/tape. If a mistake is made in recording a datum item, cancel the wrong value by drawing a fine line through it, record the correct value legibly, and ask your instructor to confirm the correction. Please remember to take a record of the precision of the instruments used. You are required to hand in the original data with your lab report, so please keep the data sheet properly.

Uncertainty of θ is $\pm 2^\circ$.

Maximum Electric Current I_0 <u>$2.21 \pm 0.01 \mu A$</u>			
θ	$I \mu A \pm 0.01 \mu A$	θ	$I \mu A \pm 0.01 \mu A$
0°	<u>2.21</u>	50°	<u>0.96</u>
5°	<u>2.20</u>	55°	<u>0.77</u>
10°	<u>2.16</u>	60°	<u>0.58</u>
15°	<u>2.09</u>	65°	<u>0.42</u>
20°	<u>1.99</u>	70°	<u>0.30</u>
25°	<u>1.89</u>	75°	<u>0.17</u>
30°	<u>1.75</u>	80°	<u>0.08</u>
35°	<u>1.57</u>	85°	<u>0.03</u>
40°	<u>1.37</u>	90°	<u>0.00</u>
45°	<u>1.17</u>		

Table 1. Measurement data Malus' law demonstration.

Instructor's signature: Yuan